

Presentation Outline

- Introductions
- Status and next steps
- Conceptual settlement overview
- Work completed to date
- Work to be done
- Process moving forward

(Date Gine)

Site Delisting

- Initiated delisting of Mill Creek and Flue Dust operable units in 2018.
 - OU 15 Mill Creek. Cleanup is complete. Anaconda-Deer Lodge County is working with developers to reuse the site.
 - * OU 33 Flue Dust. Cleanup is complete. Atlantic Richfield is developing a plan to minimize and manage leachate generated from the repository.
- Complete delisting of Mill Creek and Flue Dust operable units in 2019.
- Initiate delisting of entire site by 2025.

(Date Misse)

EPA Five-Year Reviews

- Initiate the sixth Five-Year Review for Anaconda in 2019
- Solicit public input on effective risk communication and public outreach.
- Studies and investigations include:
 - Health studies
 - Contamination in schools
 - * Slag risk
 - Wildlife and livestock risk



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School Sampling Status

- Tested for lead and arsenic in schools.
- EPA sampled the **interiors** of Anaconda schools and Head Start spring 2018.
- Atlantic Richfield tested soils at the same locations.
- Classrooms, hallways, entrances, lunchrooms, gymnasiums and other spaces used by students and workers were all below residential action levels.
- One soil area required cleaned up.
- Attic dust cleanup was required at two locations.
- Cleanup completed in 2018.



Interior dust sampling

(Sans Hans)

Human Health Study Status

- EPA is funding a health study being conducted by the Agency for Toxic Substances Disease Registry (ATSDR).
- The study is designed to evaluate **public exposure** to smelter contaminants.
- ATSDR sampled over 300 residents for blood-lead and urinearsenic in 2018.
- ATSDR will complete an exposure investigation in 2019.
- The county and state will conduct a **community health assessment** evaluating mental health, addiction and aging concerns brought up by the community.
- EPA is currently conducting a **vegetable study** to evaluate fruits and vegetables being grown in Anaconda and the surrounding area.
- Results of the studies are expected in 2019.

December 2568

Conceptual Agreement Overview

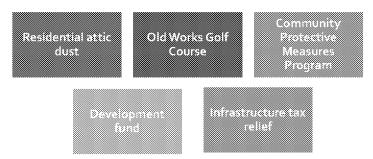
- December 4, 2018, confidentiality order modified to publicly disclose certain assessments and other information about the proposed remedial action.
- Based on community input and collaboration between agencies and stakeholders, a modified remedy proposal has been developed.
- Under the proposed remedy:

Residential Attics Yards All addressed Sample all Sample all Cover while Reduce Cleanup under new Cleanup allowing contaminant cleanup reuse loading to where where needed program needed streams

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Conceptual Agreement Overview (continued)

- Atlantic Richfield would provide funding to Anaconda-Deer Lodge County to support the remedy, implement institutional controls, and provide for community enhancement and development.
- · Proposed funding would include:

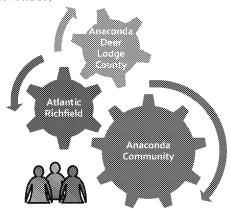


• Implementation of these remedy and development projects will support future delisting of the Anaconda Smelter Superfund site.

(Date Gree)

Conceptual Agreement Overview (continued)

- Anaconda-Deer Lodge County and Atlantic Richfield will negotiate an allocation and settlement agreement to provide funding for community enhancement and development projects.
- Community enhancement and development projects would be developed through community participation and visioning.



Community Enhancement and Development Projects

(Date Greek

Work Completed to Date

Remedial actions completed on over 80% of the site:

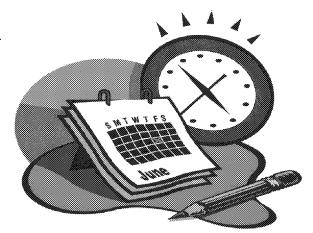
- Treated and disposed **1 million** * **cubic yards** of hazardous waste (flue dust, Arbiter waste and beryllium).
- Consolidated **several million cubic yards** of smelter waste into disposal areas.
- Capped Old Works smelter.
- Constructed Jack Nicklaus designed golf course.
- Capped **5,000** * acres (Smelter Hill and the Anaconda and Opportunity tailings impoundments).
- Created **700**⁺ acres of new or restored wetland areas.
- Treated and revegetated 12,000 acres of valley soils.
- Installed miles of stormwater controls.
- Restored/stabilized **miles of stream banks** on Warm Springs and Willow Creeks.
- Sampled and cleaned up 1,000* residential properties.



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Work to be Done

- Community soils
- Upland soils and surface water
- Slag
- Institutional controls



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Community Soils – Major Elements

Residential Soils

- Sample all residential properties within the Site.
- Cleanup all individual yard components that exceed **250 ppm arsenic** and/or **400 ppm lead** (no averaging)

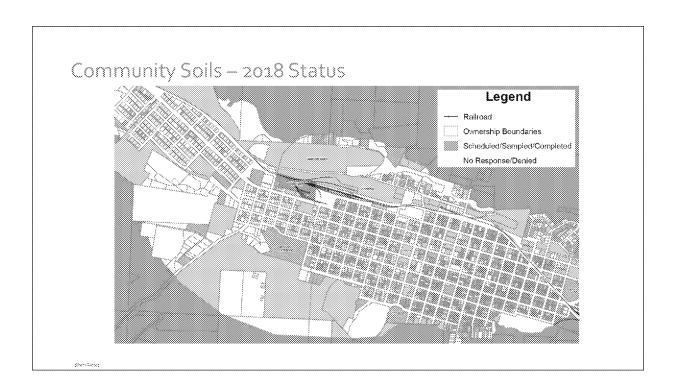
Residential Attics

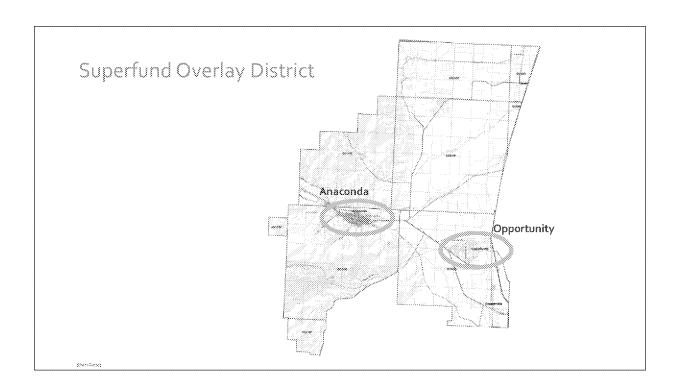
• Long-term program to sample and cleanup, where needed, all residential attics on site.

Commercial and Recreational Properties

• Sample and cleanup, where needed, all commercial and recreational properties on site.

(Date Ginse)





Upland Soils and Surface Water - Major Elements

- Steep Slope Reclamation
 - Use innovative techniques to establish vegetation on steep slopes.
 - · Construct stormwater BMPs to reduce erosion on slopes.
- Engineered Stormwater Controls
 - Construct sediment basins to reduce sediment loading to streams.
- · Replace Railroad Bridges on Mill and Willow Creeks
 - Remove waste materials associated with current bridge embankments.
- Surface Water Management Plan
 - Monitor in-stream for metals during wet weather and normal flow conditions.
 - Replace State standards with protective Federal replacement standards for certain contaminants of concern, if needed.

(Sans Kansa)

Upland Soils and Surface Water – Major Elements

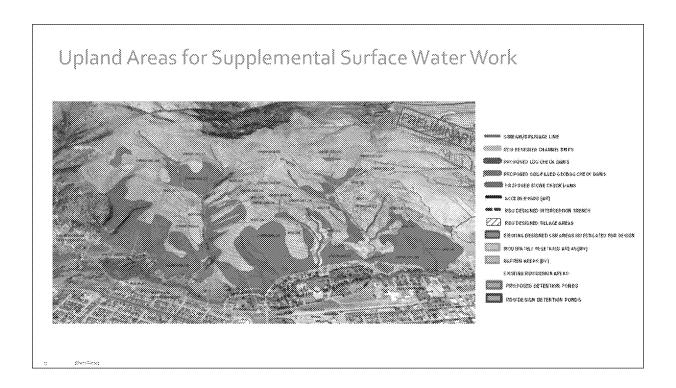
Work on Slopes

Remedia	OUSSESSES.	Sinia
Aerial Seed	509	AC
Aerial Fertilizer	509	AC
Aerial Weed Spraying	113	AC
On-Slope Wattles	27,250	LF
Planting Trees & Shrubs	13	AC
Check Dams	16	EA

BMPs

Research	Change	93118
Stone Check Dams	491	EA
Log Check Dams	1199	EA
Geo-Bag Check Dams	862	EA
Rock Grade Control	16	EA
Riprap Outlet Protection	5	EA

(Dars Hess)



Slag Management – Major Elements

- Regrade and cover north and west faces of Main Slag Pile.
- Initiate closure of Arbiter slag pile.
- Continue to allow reuse of slag.
 - Require best management practices to protect workers and prevent releases to the environment.
 - Market use of west stack slag.
 - Develop metrics for final closure of slag piles.





New of how a covered slag pile would look

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Institutional Controls – Major Elements

- Development Permit System
 - Soils handling protocols
 - Domestic well testing



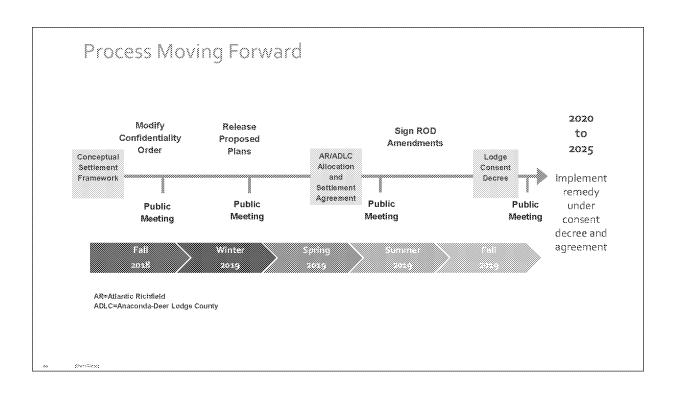
• Community Protective Measures Program

Blood Care

nterior designation

Community outreach & education

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Timerane	Decision or Action
October 11, 2018	Complete Conceptual Settlement Framework
December 4, 2018	Modify confidentiality order. To be followed by public meeting.
Next Steps	
Spring 2019	Release proposed plans. Hold public meeting.
August 2019	AR and ADLC to complete allocation and settlement agreement. Hold public meeting.
Fall 2019	Complete decision documents.
December 2019	Lodge consent decree. Hold public meeting
2020-2025	Remedy implementation under CD and agreement

This slide doesn't add anything to the previous slide. I suggest getting rid of it or just keep the last line.

Community Engagement and Collaboration

- · How can stakeholders and the community participate?
 - * Technical Assistance Group
 - Superfund Task Force
 - · Site work groups (public health study)
 - * Participate/review and comment on decision documents
 - Contact Chris Wardell, <u>wardell, chris@epa.gov</u>, Community Involvement Coordinator
 - Contact Charlie Coleman, <u>coleman charles@epa gov</u>, Remedial Project Manager
- Website information
 - https://eca.gov/superfund/anaconda-co-smelter





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